

TWO RARE SPECIES OF EPHEMEROPTERA IN THE LOWER MISSISSIPPI RIVER^{1,2}

Larry G. Sanders,³ C. Rex Bingham³

During a research effort on the lower Mississippi River from Lake Providence, Louisiana (river mile 480) upstream to Greenville, Mississippi, river mile 530, the following records of rare mayflies were obtained. Specimens have been deposited in the collection of Dr. G. F. Edmunds, Jr., University of Utah.

Spinadis Edmunds and Jensen

In June 1978, a single *Spinadis* nymph was collected in a 500-micron mesh plankton net drifting at 2400 hrs during a diel sampling effort on the lower Mississippi River at river mile 529. Previous distributional records were from Georgia, Indiana, and Wisconsin. It is not certain whether the known records represent more than one species. The type locality is Georgia and based on distribution patterns of other mayfly species, it is likely that the specimen represents *S. wallacei* (Edmunds, personal communication). Stage of maturity of the specimen agrees with predicted emergence in late June or early July (Edmunds et al, 1976).

Pseudiron McDunnough

On 17 May 1978 two *Pseudiron* sp. nymphs poss. *centralis* were collected in a shipek grab sample at a depth of 9 meters in a dike field at river mile 515. *Pseudiron* sp. was previously recorded from Central Mississippi (LeFlore County) by Berner in 1977. (Berner, 1977). Concomitant water chemistry data were as follows: temperature 18.0 °C, dissolved oxygen 8.1 mg/l, specific conductivity 395 mhos, and pH 7.6. Sediment type was coarse sand.

ACKNOWLEDGEMENTS

We are grateful to Dr. Bill Stark, Mississippi College, and Dr. G. F. Edmunds, Jr., University of Utah, for confirming the identifications of these specimens.

REFERENCES

- Edmunds, G. F., Jr., S.L. Jensen, and L. Berner. 1976. The mayflies of North and Central America. Univ. Minnesota Press, Minneapolis. X +330 P., 432 Figs.
Berner, L. Distributional Patterns of Southeastern Mayflies (Ephemeroptera) Bull. FLA. State Mus. Biol. Sci. 22(1): 1-55.

¹Received May 30, 1980.

²This project was funded by the Office, Chief of Engineers (OCE) and is being conducted by the Waterway Habitat and Monitoring Group, EWQOS, Project VIIB.

³Environmental Laboratory, Waterways Experiment Station, Vicksburg, Mississippi 39180.